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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/597,580		06/20/2000	Gary L. Griffiths	018733/0987	5842
22428	7590	02/12/2004		EXAMINER	
FOLEY AN	ID LARI	ONER	JONES, DAMERON LEVEST		
SUITE 500 3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHINGT		20007	1616		

DATE MAILED: 02/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/597,580	GRIFFITHS ET	AL.			
	Office Action Summary	Examiner	Art Unit				
		D. L. Jones	1616				
Period fo	The MAILING DATE of this communication Reply	on appears on the cover shee	t with the correspondence a	nddress			
A SH THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) day opened for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION.  CFR 1.136(a). In no event, however, mantion.  ys, a reply within the statutory minimum of y period will apply and will expire SIX (6) It by statute, cause the application to become	y a reply be timely filed  thirty (30) days will be considered tim MONTHS from the mailing date of this e ABANDONED (35 U.S.C. § 133).				
Status							
1)[🛛	Responsive to communication(s) filed or	n 03 November 2003.					
· <u> </u>	•	This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	4) Claim(s) 1-42,44 and 46-54 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-42,44 and 46-54 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)[	The specification is objected to by the Ex	aminer.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by	·	<del>*</del> , , , ,	` .			
Priority u	ınder 35 U.S.C. § 119						
a)(	Acknowledgment is made of a claim for f  All b) Some * c) None of:  1. Certified copies of the priority doc  2. Certified copies of the priority doc  3. Copies of the certified copies of the application from the International fee the attached detailed Office action for	uments have been received. uments have been received in te priority documents have be Bureau (PCT Rule 17.2(a)).	n Application No een received in this Nationa	al Stage			
Attachmen	t(s)						
	e of References Cited (PTO-892)		w Summary (PTO-413)				
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date		No(s)/Mail Date of Informal Patent Application (PT	ГО-152)			

### **ACKNOWLEDGMENTS**

1. The Examiner acknowledges the amendment filed 11/3/03 wherein claims 1, 21, 38, and 53 were amended and claims 43 and 45 were canceled.

Note: Claims 1-42, 44, and 46-54 are pending.

### RESPONSE TO APPLICANT'S AMENDMENT/ARGUMENTS

2. The Applicant's arguments filed 11/3/03 to the rejection of claims 1-16, 18, 20-42, 44, 46, and 50-54 made by the Examiner under 35 USC 103 and/or 112 have been fully considered and deemed persuasive for reasons of record. Therefore, the said rejections are hereby withdrawn.

## **NEW GROUNDS OF REJECTIONS**

### 112 First Paragraph Rejections

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-42, 44, and 46-54 are rejected under 35 U.S.C. 112, first paragraph, because the specification does not reasonably provide enablement for an infectious disease agent in a patient. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

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There are several guidelines when determining if the specification of an application allows the skilled artisan to practice the invention without undue experimentation. The factors to be considered in determining what constitutes undue experimentation were affirmed by the court in *In re Wands* (8 USPQ2d 1400 (CAFC 1986)). These factors are (1) nature of the invention; (2) state of the prior art; (3) level of one of ordinary skill in the art; (4) level of predictability in the art; (5) amount of direction and guidance provided by the inventor; (6) existence of working examples; (7) breadth of claims; and (8) quantity of experimentation needed to make or use the invention based on the content of the disclosure.

## (1) Nature of the invention

The claims are directed to a composition having a targeting moiety that binds to a tumor or infectious disease-causing agent.

## (2) State of the prior art

The prior art of record do not indicate which specific infectious disease agents or class of agents that are useful with the claimed invention.

# (3) Level of one of ordinary skill in the art

The level of one of ordinary skill in the art is high. Independent claims 1, 37, and 38 encompass a vast number of possible infectious disease causing agents.

Applicant's specification does not enable the public to make or use such a vast number of possible agents in combination with the compositions being claimed.

## (4) Level of predictability in the art

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The art pertaining to compositions having infectious disease causing agents as set forth in independent claims 1, 37, and 38 is highly unpredictable. Determining the various types of agents or class of agents that will associated with Applicant's marker substance requires various experimental procedures and without guidance that is applicable to all compositions as set forth by Applicant's claims, there would be little predictability in performing the claimed invention.

## (5) Amount of direction and guidance provided by the inventor

Independent claims 1, 37, and 38 encompass a vast number of agents.

Applicant's limited guidance does not enable the public to prepare the infectious disease causing agents. There is no directional guidance for the agents or specific characteristics/properties that will result in agents useful with the instant invention. Hence, there is no enablement for infectious disease causing agents.

## (6) Existence of working examples

Independent claims 1, 37, and 38 encompass a vast number of infectious disease causing agents. Applicant's working examples do not enable the public to prepare or use such agents. While Applicant's claims encompass a plethora of possible infectious disease causing agents, the specification, page 3, lines 2-3, states that the infectious diseases include bacterial, viral, and fungal diseases, but do not provide any further explanation or an example of the infectious causing agents thereof.

# (7) Breadth of claims

The claims are extremely broad due to the vast number of possible infectious disease causing agents known to exist.

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(8) Quantity of experimentation needed to make or use the invention based on the

content of the disclosure

The specification does not enable any person skilled in the art to which it pertains

to make or use the invention commensurate in scope with the claims. In particular, the

specification fails to enable the skilled artisan to practice the invention without undue

experimentation. Furthermore, based on the unpredictable nature of the invention, the

state of the prior art, and the extreme breadth of the claims, one skilled in the art could

not perform the claimed invention without undue experimentation.

112 Second Paragraph Rejections

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 1-42, 44, and 46-54 are rejected under 35 U.S.C. 112, second paragraph.

as being indefinite for failing to particularly point out and distinctly claim the subject

matter which applicant regards as the invention.

Claim 38, lines 13-14: the claim as written is ambiguous because of the phrase

'(c) corresponding enzymes and prodrug substrates'. In particular, it is unclear what

enzymes and substrates Applicant is referring to. Pleas clarify in order that one may

readily ascertain what is being claimed.

Claims 1-42, 44, and 46-54: the claims as written are ambiguous because one

cannot readily ascertain what is being claimed. Specifically, the claims as written read

on an infectious disease. However, one of ordinary skill in the art would not be able to

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ascertain what is infectious disease(s) are encompassed in the claim as written.

Applicant is respectfully requested to clarify the claim in order that one may determine what is being claimed.

# **Double Patenting Rejections**

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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- 8. Claims 1, 25, and 26 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 25 of U.S. Patent No. 5,736,119. Although the conflicting claims are not identical, they are not patentably distinct from each other because both inventions are directed to compositions comprising an avidin/biotin and therapeutic/detection agent.
- 9. Claims 37-40 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 25 and 29-34 of U.S. Patent No. 5,846,741. Although the conflicting claims are not identical, they are not patentably distinct from each other because both inventions are directed to compositions comprising a boron complex (therapeutic agent) and a binding pair.
- 10. Claims 1, 25, and 27 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 41 of U.S. Patent No. 5,482,698. Although the conflicting claims are not identical, they are not patentably distinct from each other because both inventions are directed to compositions comprising a multivalent target-polymer complex.
- 11. Claims 1-42, 44, and 46-54 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 46, 52, 54-66, 69-95, 104, 108-127, 129, 134-153, 158, 164-166, 169, 204, 206, and 210 of copending Application No. 10/361,026. Although the conflicting claims are not identical,

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they are not patentably distinct from each other because both inventions are directed to compositions encompassed by independent claims 1, 37, and 38 of the instant invention.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

### COMMENTS/NOTES

- 12. It should be noted that no prior art has been cited against Applicant's claims; however, Applicant must address and overcome the double patenting rejections. The claims are distinguished over the prior art of record because the prior art neither anticipates nor renders obvious compositions as set forth in independent claims 1, 37, and 38. The closest art is Applicant's own work over which double patenting rejections have been made.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (571) 272-0617. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. L. Jones

Primary Examiner
Art Unit 1616

February 9, 2004